

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/490,187

DATE: 02/15/2000
TIME: 14:57:42

Input Set: I490187.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

#2

```

1 <110> APPLICANT: Chaudhary, Preet M.
2 <120> TITLE OF INVENTION: Gene Expression in Ectodermal Dysplasia
3 <130> FILE REFERENCE: utsd680
4 <140> CURRENT APPLICATION NUMBER: US/09/490,187
5 <141> CURRENT FILING DATE: 2000-01-23
6 <160> NUMBER OF SEQ ID NOS: 2
7 <170> SOFTWARE: PatentIn Ver. 2.1
8 <210> SEQ ID NO 1
9 <211> LENGTH: 1489
10 <212> TYPE: DNA
11 <213> ORGANISM: human
12 <220> FEATURE:
13 <221> NAME/KEY: CDS
14 <222> LOCATION: (65)..(1333)
15 <400> SEQUENCE: 1
16      ggacctgcag cctcccaggt ggctgggaag aactctccaa caataaatac atttgataag 60
17      aaag atg gct tta aaa gtg cta cta gaa caa gag aaa acg ttt ttc act 109
18      Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr
19      1          5          10          15
20      ctt tta gta tta cta ggc tat ttg tca tgt aaa gtg act tgt gaa tca 157
21      Leu Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser
22      20          25          30
23      gga gac tgt aga cag caa gaa ttc agg gat cgg tct gga aac tgt gtt 205
24      Gly Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val
25      35          40          45
26      ccc tgc aac cag tgt ggg cca ggc atg gag ttg tct aag gaa tgt ggc 253
27      Pro Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly
28      50          55          60
29      ttc ggc tat ggg gag gat gca cag tgt gtg gcg tgc cgg ctg cac agg 301
30      Phe Gly Tyr Gly Glu Asp Ala Gln Cys Val Ala Cys Arg Leu His Arg
31      65          70          75
32      ttc aag gag gac tgg ggc ttc cag aaa tgc aag ccc tgt ctg gac tgc 349
33      Phe Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys
34      80          85          90          95
35      gca gtg gtg aac cgc ttt cag aag gca aat tgt tca gcc acc agt gat 397
36      Ala Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp
37      100          105          110
38      gcc atc tgc ggg gac tgc ttg cca gga ttt tat agg aag acg aaa ctt 445
39      Ala Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu
40      115          120          125
41      gtc ggc ttt caa gac atg gag tgt gtg cct tgt gga gac cct cct cct 493
42      Val Gly Phe Gln Asp Met Glu Cys Val Pro Cys Gly Asp Pro Pro Pro
43      130          135          140
44      cct tac gaa ccg cac tgt gcc agc aag gtc aac ctc gtg aag atc gcg 541

```

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/490,187

 DATE: 02/15/2000
 TIME: 14:57:42

Input Set: I490187.RAW

45	Pro	Tyr	Glu	Pro	His	Cys	Ala	Ser	Lys	Val	Asn	Leu	Val	Lys	Ile	Ala	
46		145					150					155					
47	tcc	acg	gcc	tcc	agc	cca	cgg	gac	acg	gcg	ctg	gct	gcc	gtt	atc	tgc	589
48	Ser	Thr	Ala	Ser	Ser	Pro	Arg	Asp	Thr	Ala	Leu	Ala	Ala	Val	Ile	Cys	
49	160					165					170					175	
50	agc	gct	ctg	gcc	acc	gtc	ctg	ctg	gcc	ctg	ctc	atc	ctc	tgt	gtc	atc	637
51	Ser	Ala	Leu	Ala	Thr	Val	Leu	Leu	Ala	Leu	Leu	Ile	Leu	Cys	Val	Ile	
52					180					185					190		
53	tat	tgt	aag	aga	cag	ttt	atg	gaa	aag	aaa	ccc	agc	tgg	tct	ctg	cgg	685
54	Tyr	Cys	Lys	Arg	Gln	Phe	Met	Glu	Lys	Lys	Pro	Ser	Trp	Ser	Leu	Arg	
55				195					200					205			
56	tca	cag	gac	att	cag	tac	aac	gag	act	gag	ctg	tcg	tgt	ttt	gac	aga	733
57	Ser	Gln	Asp	Ile	Gln	Tyr	Asn	Glu	Thr	Glu	Leu	Ser	Cys	Phe	Asp	Arg	
58		210						215					220				
59	cct	cag	ctc	cac	gaa	tat	gcc	cac	aga	gcc	tgc	tgc	cag	tgc	cgc	cgt	781
60	Pro	Gln	Leu	His	Glu	Tyr	Ala	His	Arg	Ala	Cys	Cys	Gln	Cys	Arg	Arg	
61		225					230				235						
62	gac	tca	gtg	cag	acc	tgc	ggg	ccg	gtg	cgc	ttg	ctc	cca	tcc	atg	tgc	829
63	Asp	Ser	Val	Gln	Thr	Cys	Gly	Pro	Val	Arg	Leu	Leu	Pro	Ser	Met	Cys	
64	240					245				250						255	
65	tgt	gag	gag	gcc	tgc	agc	ccc	aac	ccg	gcg	act	ctt	ggg	tgt	ggg	gtg	877
66	Cys	Glu	Glu	Ala	Cys	Ser	Pro	Asn	Pro	Ala	Thr	Leu	Gly	Cys	Gly	Val	
67				260					265					270			
68	cat	tct	gca	gcc	agt	ctt	cag	gca	aga	aac	gca	ggc	cca	gcc	ggg	gag	925
69	His	Ser	Ala	Ala	Ser	Leu	Gln	Ala	Arg	Asn	Ala	Gly	Pro	Ala	Gly	Glu	
70			275						280				285				
71	atg	gtg	ccg	act	ttc	ttc	gga	tcc	ctc	acg	cag	tcc	atc	tgt	ggc	gag	973
72	Met	Val	Pro	Thr	Phe	Phe	Gly	Ser	Leu	Thr	Gln	Ser	Ile	Cys	Gly	Glu	
73		290					295					300					
74	ttt	tca	gat	gcc	tgg	cct	ctg	atg	cag	aat	ccc	atg	ggg	ggg	gac	aac	1021
75	Phe	Ser	Asp	Ala	Trp	Pro	Leu	Met	Gln	Asn	Pro	Met	Gly	Gly	Asp	Asn	
76	305					310					315						
77	atc	tct	ttt	tgt	gac	tct	tat	cct	gaa	ctc	act	gga	gaa	gac	att	cgt	1069
78	Ile	Ser	Phe	Cys	Asp	Ser	Tyr	Pro	Glu	Leu	Thr	Gly	Glu	Asp	Ile	His	
79	320					325					330					335	
80	tct	ctc	aat	cca	gaa	ctt	gaa	agc	tca	acg	tct	ttg	gat	tca	aat	agc	1117
81	Ser	Leu	Asn	Pro	Glu	Leu	Glu	Ser	Ser	Thr	Ser	Leu	Asp	Ser	Asn	Ser	
82			340						345					350			
83	agt	caa	gat	ttg	gtt	ggg	ggt	gtt	cca	gtc	cag	tct	cat	tct	gaa		1165
84	Ser	Gln	Asp	Leu	Val	Gly	Gly	Ala	Val	Pro	Val	Gln	Ser	His	Ser	Glu	
85			355						360					365			
86	aac	ttt	aca	gca	gct	act	gat	tta	tct	aga	tat	aac	aac	aca	ctg	gta	1213
87	Asn	Phe	Thr	Ala	Ala	Thr	Asp	Leu	Ser	Arg	Tyr	Asn	Asn	Thr	Leu	Val	
88		370					375						380				
89	gaa	tca	gca	tca	act	cag	gat	gca	cta	act	atg	aga	agc	cag	cta	gat	1261
90	Glu	Ser	Ala	Ser	Thr	Gln	Asp	Ala	Leu	Thr	Met	Arg	Ser	Gln	Leu	Asp	
91		385					390					395					
92	cag	gag	agt	ggc	gct	gtc	atc	cac	cca	gcc	act	cag	acg	tcc	ctc	cag	1309
93	Gln	Glu	Ser	Gly	Ala	Val	Ile	His	Pro	Ala	Thr	Gln	Thr	Ser	Leu	Gln	
94	400					405					410					415	

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/490,187

DATE: 02/15/2000
TIME: 14:57:42

Input Set: I490187.RAW

```

95      gta agg cag cga ctg ggt tcc ctg tgaacacagc actgacttac agtagatcag 1363
96      Val Arg Gln Arg Leu Gly Ser Leu
97      420
98      aactctgttc ccagcataag atttggggga acctggatga gttttttttt ttgcatcttt 1423
99      aataatttct tatatgttgt agagtatgtt ttaaaataaa tttcaagtat ttttttaaaa 1483
100     aacttt 1489
101     <210> SEQ ID NO 2
102     <211> LENGTH: 423
103     <212> TYPE: PRT
104     <213> ORGANISM: human
105     <400> SEQUENCE: 2
106     Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
107     1 5 10 15
108     Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
109     20 25 30
110     Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
111     35 40 45
112     Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
113     50 55 60
114     Gly Tyr Gly Glu Asp Ala Gln Cys Val Ala Cys Arg Leu His Arg Phe
115     65 70 75 80
116     Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
117     85 90 95
118     Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
119     100 105 110
120     Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
121     115 120 125
122     Gly Phe Gln Asp Met Glu Cys Val Pro Cys Gly Asp Pro Pro Pro Pro
123     130 135 140
124     Tyr Glu Pro His Cys Ala Ser Lys Val Asn Leu Val Lys Ile Ala Ser
125     145 150 155 160
126     Thr Ala Ser Ser Pro Arg Asp Thr Ala Leu Ala Ala Val Ile Cys Ser
127     165 170 175
128     Ala Leu Ala Thr Val Leu Leu Ala Leu Leu Ile Leu Cys Val Ile Tyr
129     180 185 190
130     Cys Lys Arg Gln Phe Met Glu Lys Lys Pro Ser Trp Ser Leu Arg Ser
131     195 200 205
132     Gln Asp Ile Gln Tyr Asn Glu Thr Glu Leu Ser Cys Phe Asp Arg Pro
133     210 215 220
134     Gln Leu His Glu Tyr Ala His Arg Ala Cys Cys Gln Cys Arg Arg Asp
135     225 230 235 240
136     Ser Val Gln Thr Cys Gly Pro Val Arg Leu Leu Pro Ser Met Cys Cys
137     245 250 255
138     Glu Glu Ala Cys Ser Pro Asn Pro Ala Thr Leu Gly Cys Gly Val His
139     260 265 270
140     Ser Ala Ala Ser Leu Gln Ala Arg Asn Ala Gly Pro Ala Gly Glu Met
141     275 280 285
142     Val Pro Thr Phe Phe Gly Ser Leu Thr Gln Ser Ile Cys Gly Glu Phe
143     290 295 300
144     Ser Asp Ala Trp Pro Leu Met Gln Asn Pro Met Gly Gly Asp Asn Ile

```

PAGE: 4

RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/490,187

DATE: 02/15/2000
 TIME: 14:57:42

Input Set: I490187.RAW

145	305	310	315	320
146	Ser Phe Cys Asp Ser Tyr Pro Glu Leu Thr Gly Glu Asp Ile His Ser			
147		325	330	335
148	Leu Asn Pro Glu Leu Glu Ser Ser Thr Ser Leu Asp Ser Asn Ser Ser			
149		340	345	350
150	Gln Asp Leu Val Gly Gly Ala Val Pro Val Gln Ser His Ser Glu Asn			
151		355	360	365
152	Phe Thr Ala Ala Thr Asp Leu Ser Arg Tyr Asn Asn Thr Leu Val Glu			
153		370	375	380
154	Ser Ala Ser Thr Gln Asp Ala Leu Thr Met Arg Ser Gln Leu Asp Gln			
155		385	390	395
156	Glu Ser Gly Ala Val Ile His Pro Ala Thr Gln Thr Ser Leu Gln Val			
157		405	410	415
158	Arg Gln Arg Leu Gly Ser Leu			
159		420		

PAGE: 5

VERIFICATION SUMMARY
PATENT APPLICATION US/09/490,187

DATE: 02/15/2000
TIME: 14:57:42

Input Set: I490187.RAW

Line ? Error/Warning

Original Text
